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# Leffingwell & Associates

Odor Properties & Molecular Visualization

## Esters DETECTION THRESHOLDS & Molecular Structures

### Ethyl formate... $C_3H_6O_2$

Odor Detection Threshold (in water) = 150,000 ppb

Ethereal, fruity, rum-like

### Ethyl Acetate... $C_4H_8O_2$

Odor Detection Threshold (in water) = 5000 ppb

Ethereal, sharp, wine-brandy like odor

### Ethyl propionate... $C_5H_{10}O_2$

Odor Detection Threshold (in water) = 10 ppb

Strong, ethereal, fruity, rum-like odor and taste

### Ethyl butyrate... $C_6H_{12}O_2$

Odor Detection Threshold (in water) = 1 ppb

Ethereal, fruity odor; buttery, ripe fruit notes

### Ethyl valerate... $C_7H_{14}O_2$

Odor Detection Threshold (in water) = 1.5 ppb

Strong, fruity, apple-like odor and taste

### Ethyl hexanoate... $C_8H_{16}O_2$

Odor Detection Threshold (in water) = 1 ppb

Strong, fruity, winery odor; apple, banana, pineapple notes

### Ethyl heptanoate... $C_9H_{18}O_2$

Odor Detection Threshold (in water) = 2.2 ppb

Strong, fruity, winery, cognac-like odor and taste

### Ethyl octanoate... $C_{10}H_{20}O_2$

Flavor Detection Threshold (in water) = 15 ppb

Fruity, winery, sweet odor; cognac-apricot taste

### Ethyl nonanoate... $C_{11}H_{22}O_2$

Odor Detection Threshold (in wine) = 850 ppb

Fatty, oily, cognac, nut-like odor; oily, fatty-fruity taste

### Ethyl decanoate... $C_{12}H_{24}O_2$

Odor Detection Threshold (in wine) = 510 ppb

Sweet, fatty, nut-like, winery-cognac odor

Ethyl dodecanoate...C<sub>14</sub>H<sub>28</sub>O<sub>2</sub>

Flavor Detection Threshold (in beer) = 2000 ppb

Oily, fatty, floral with fatty fruity taste

Ethyl myristate...C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>

Flavor Detection Threshold (in beer) = 2000 ppb

Weak, fatty odor

Ethyl palmitate...C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>

Odor Detection Threshold (in water) = >2000 ppb

Faint, waxy, sweet odor; nearly tasteless; creamy mouthfeel

Data abstracted from Flavor-Base 98

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